- b) means for making requests during row N for space in row N+1; and
  - c) means for granting requests through an out-of-band link.
- 14. An apparatus according to claim 13, wherein:
  each request includes through-the-switch routing information
  and priority level information.
- 15. An apparatus according to claim 14, further comprising:
- d) means for buffering the request at each stage of the switch; and
- e) means for discarding low priority requests when the buffer reaches a threshold.
- 16. An apparatus according to claim 15, wherein:
  said means for granting requests includes means for returning
  requests which have not been discarded before reaching the egress
- 17. An apparatus according to claim 13, wherein:
  each request for space is for a 52-byte chunk of space.

of the switch.

18. An apparatus according to claim 17, wherein bandwidth is arbitrated among ATM cells and variable length packets, said apparatus further comprising:

- d) means for segmenting each packet larger than 52-bytes into a plurality of 52-byte chunks.
- 19. An apparatus according to claim 18, wherein:
  each request includes through-the-switch routing information
  and priority level information.
- 20. An apparatus according to claim 19, further comprising:
- e) means for buffering the request at each stage of the switch; and
- f) means for discarding low priority requests when the buffer reaches a threshold.
- 21. An apparatus according to claim 20, wherein:
  said means for granting requests includes means for returning
  requests which have not been discarded before reaching the egress

of the switch.

- 22. An apparatus according to claim 21, further comprising:
- g) means for discarding requests for all following segments of a packet when a request for one segment of the packet has been discarded.
- 23. An apparatus according to claim 13, wherein: said requests are made in-band.